



Fourth GAIN World Conference

Paris, France
June 14-15, 2000

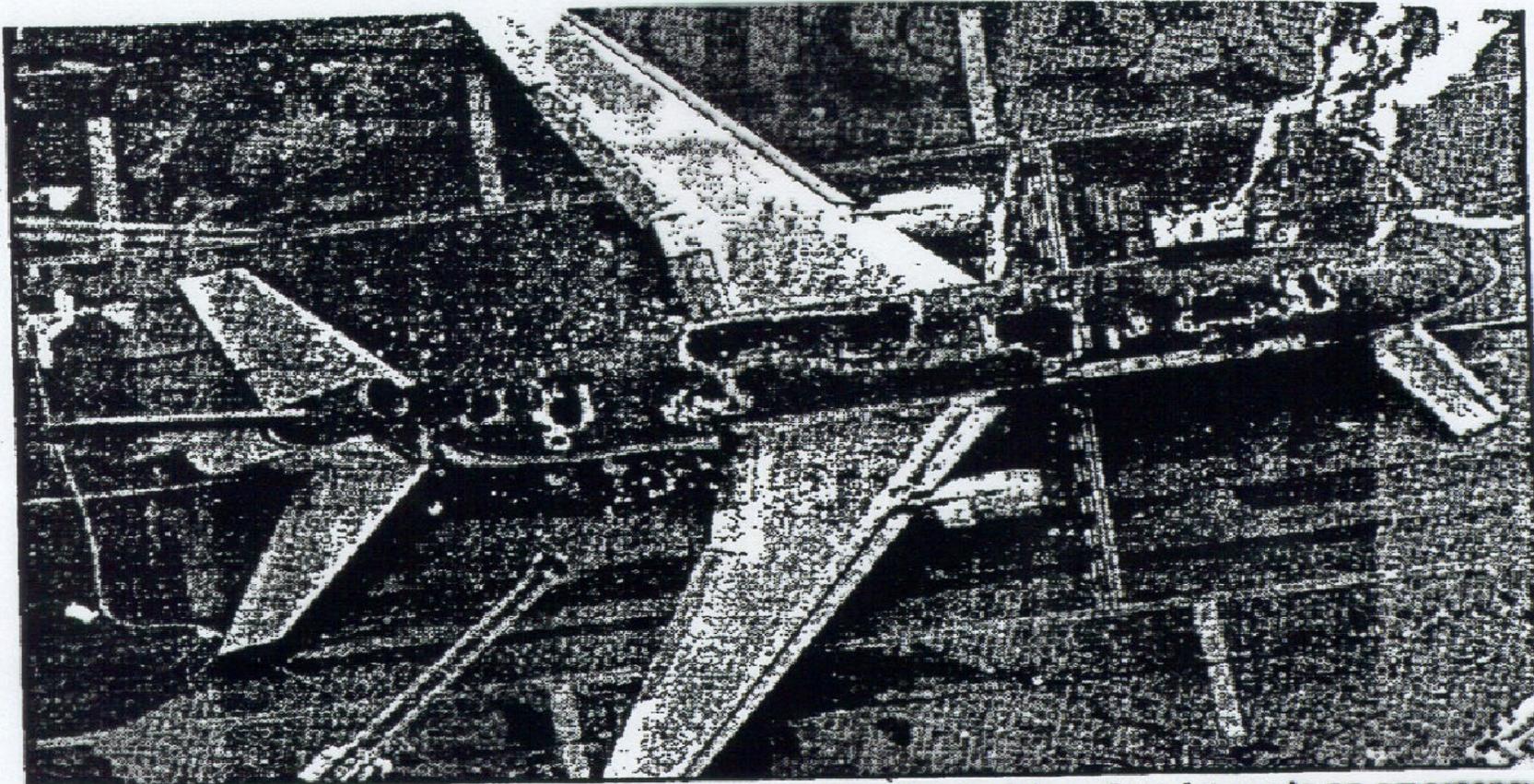
Implementing a Flight Data Monitoring Program

Mr. Al Baldwin
Flight Safety
Continental Airlines



FOQA Concerns

- **Media**
- **Litigation**
- **FAA “Statutory Obligation”**



LUCKY ESCAPE: The crew escaped unharmed when this burning cargo jet made an emergency landing at upstate Newburgh in the second of yesterday's fiery airport dramas. AP

6 hurt fleeing La Guardia jet fire

Six people were injured slightly yesterday when they were forced to evacuate a Cleveland-bound Continental Airlines flight at La Guardia Airport.

Officials said the small engine fire aboard Flight 1993 — apparently caused by excess fuel — was extinguished within seconds.

The 89 passengers and five crew

members evacuated down chutes onto the runway when the control tower reported the flames to the captain as the plane was taxiing for takeoff.

Continental spokesman Dave Messing said the plane was taken out of service for inspection.

At Stewart International Airport in upstate Newburgh, a fire

in a Federal Express cargo plane briefly shut down operations.

The DC-10 — on its way from Memphis, Tenn., to Boston — made an emergency landing after the crew reported smoke in the cockpit.

Flames erupted and quickly spread to the rest of the plane, but there were no injuries, officials said.

Bryna Taubman



Status Update

- **FOQA NPRM**
- **DemoProj Background and Status**



History of Continental Flight Data Monitoring Program

- **Number of Aircraft**
- **Pilot Agreements**
- **Relationship with FAA**



How We Dealt With Issues

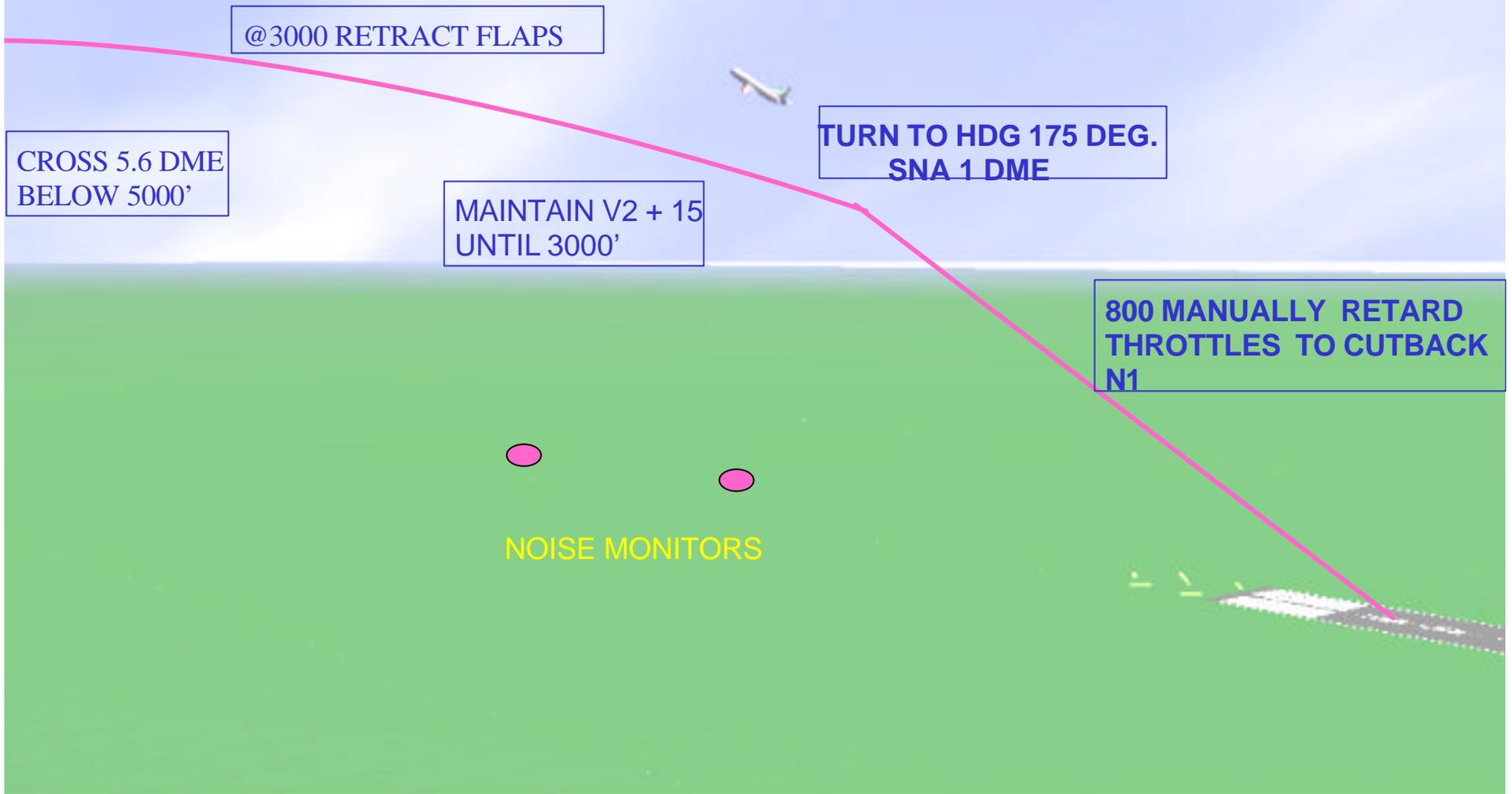
- **Pilot Agreements/ Confidentiality**
- **Management Commitment**
- **GDRAS Selection**
- **Lessons Learned**



Data Sharing

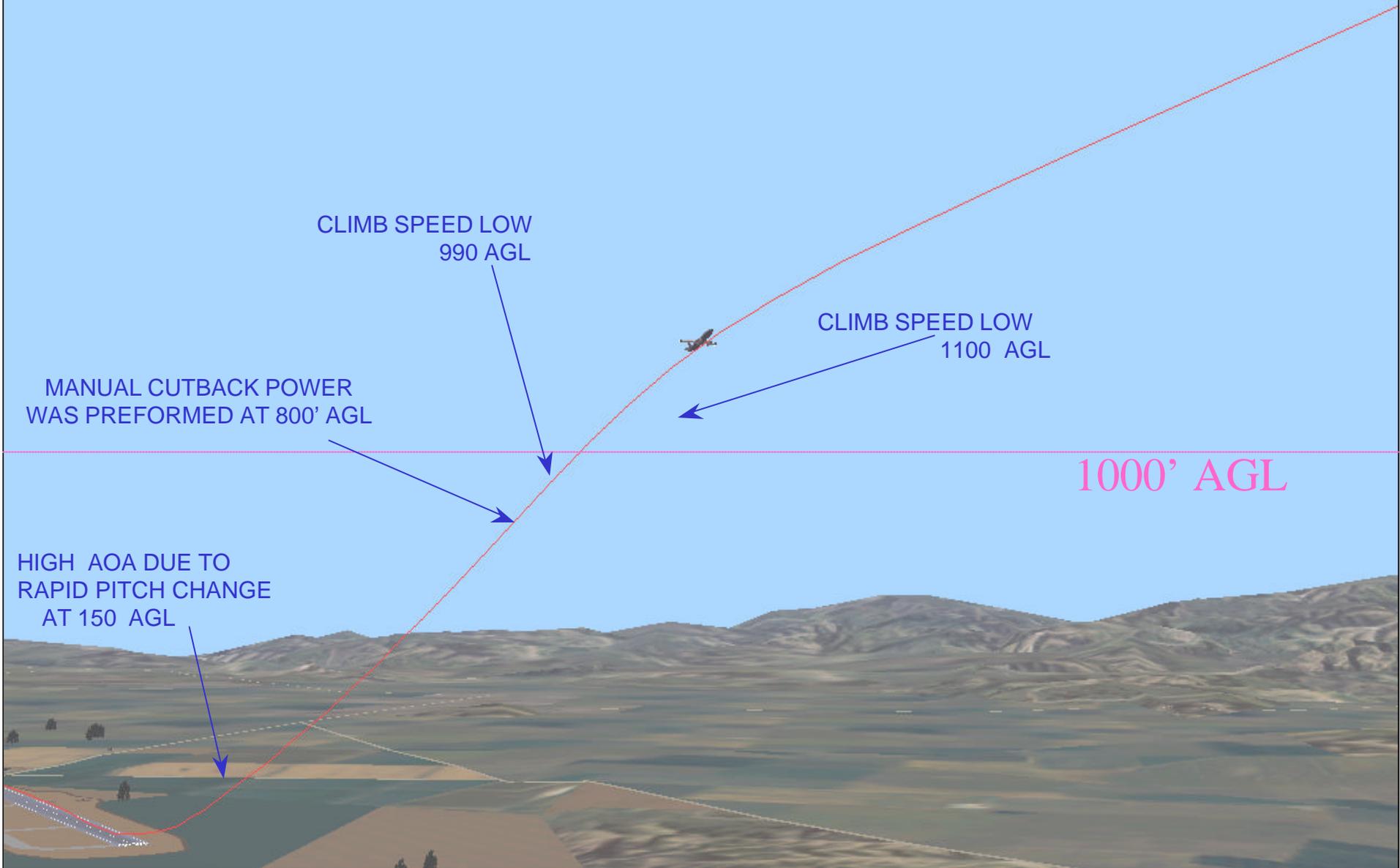
- **Formal**
- **Informal**

NOISE ABATEMENT DEPARTURE SANTA ANA B737-700



SNA

LOW CLIMB OUT SPEED



CLIMB SPEED LOW
990 AGL

CLIMB SPEED LOW
1100 AGL

MANUAL CUTBACK POWER
WAS PERFORMED AT 800' AGL

1000' AGL

HIGH AOA DUE TO
RAPID PITCH CHANGE
AT 150 AGL

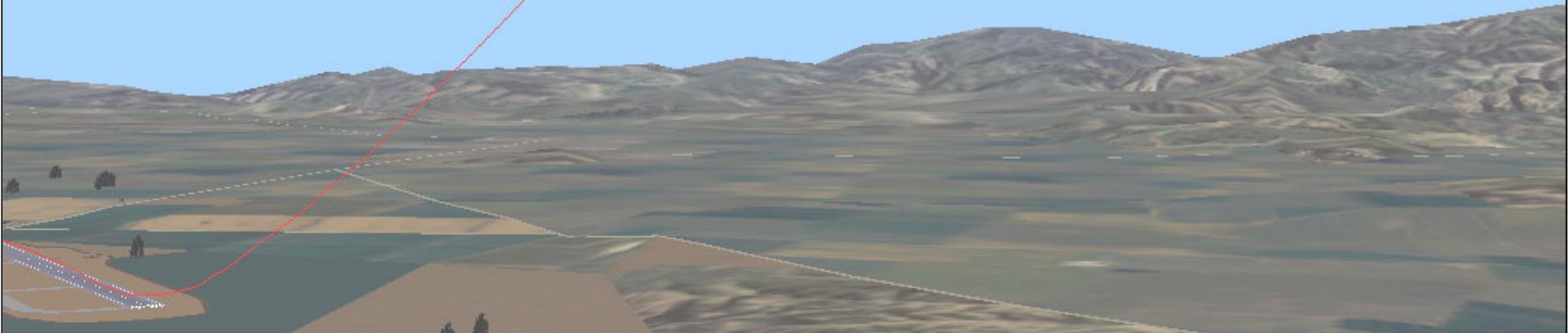
SNA

WIND SHEAR

At 1200 AGL wind direction 250/ 5kts
At 1300 AGL wind direction 045/ 13kts
Indicated airspeed loss of 30 kts occurred at this
time accompanied by GPWS "WIND SHEAR"



1000' AGL



FLIGHT EVENTS FOR SNA

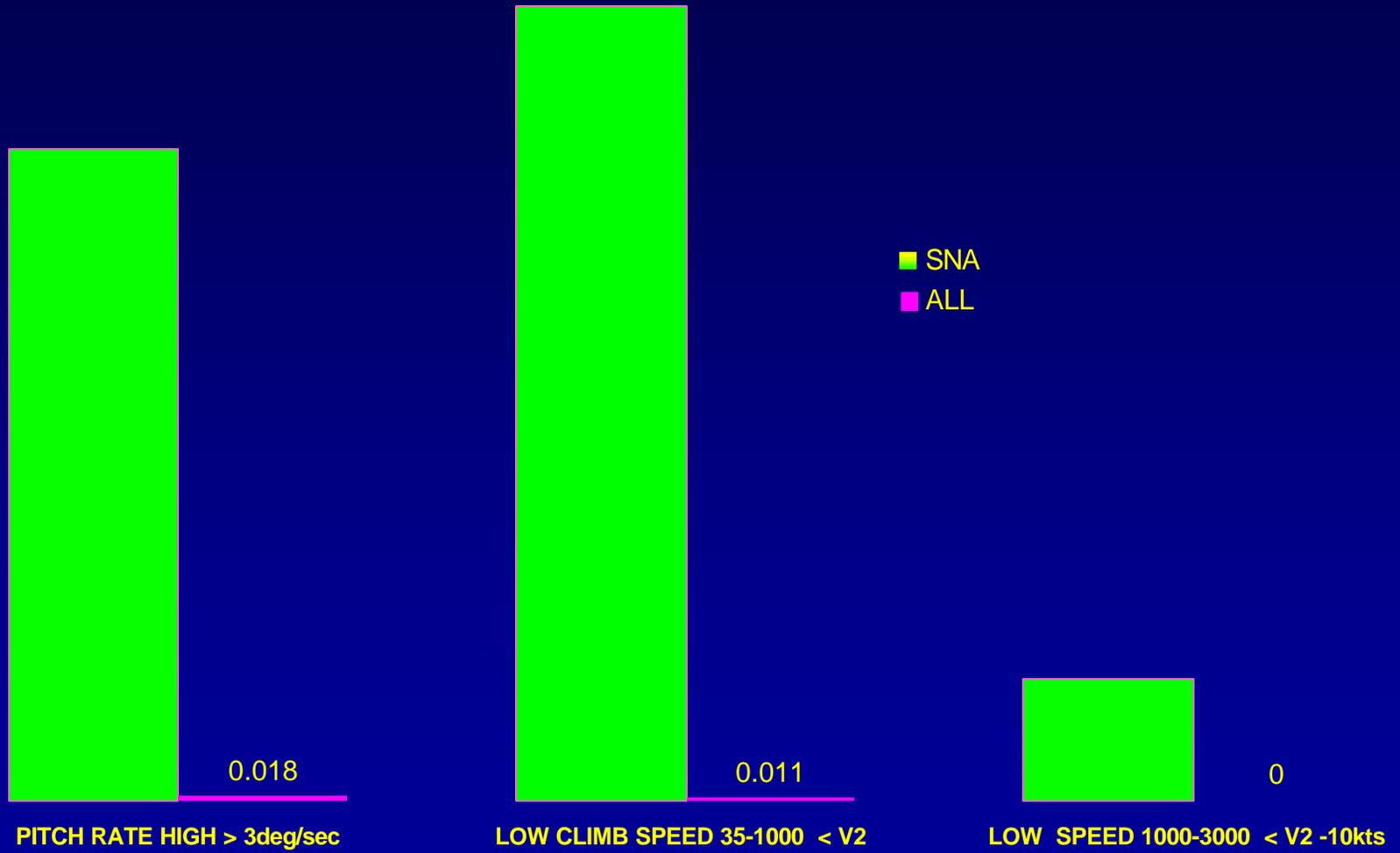
HIGH ROTATION RATES

HIGH PITCH ANGLE AT LIFTOFF

LARGE POWER REDUCTIONS AT 800 FEET

LOW CLIMB SPEEDS

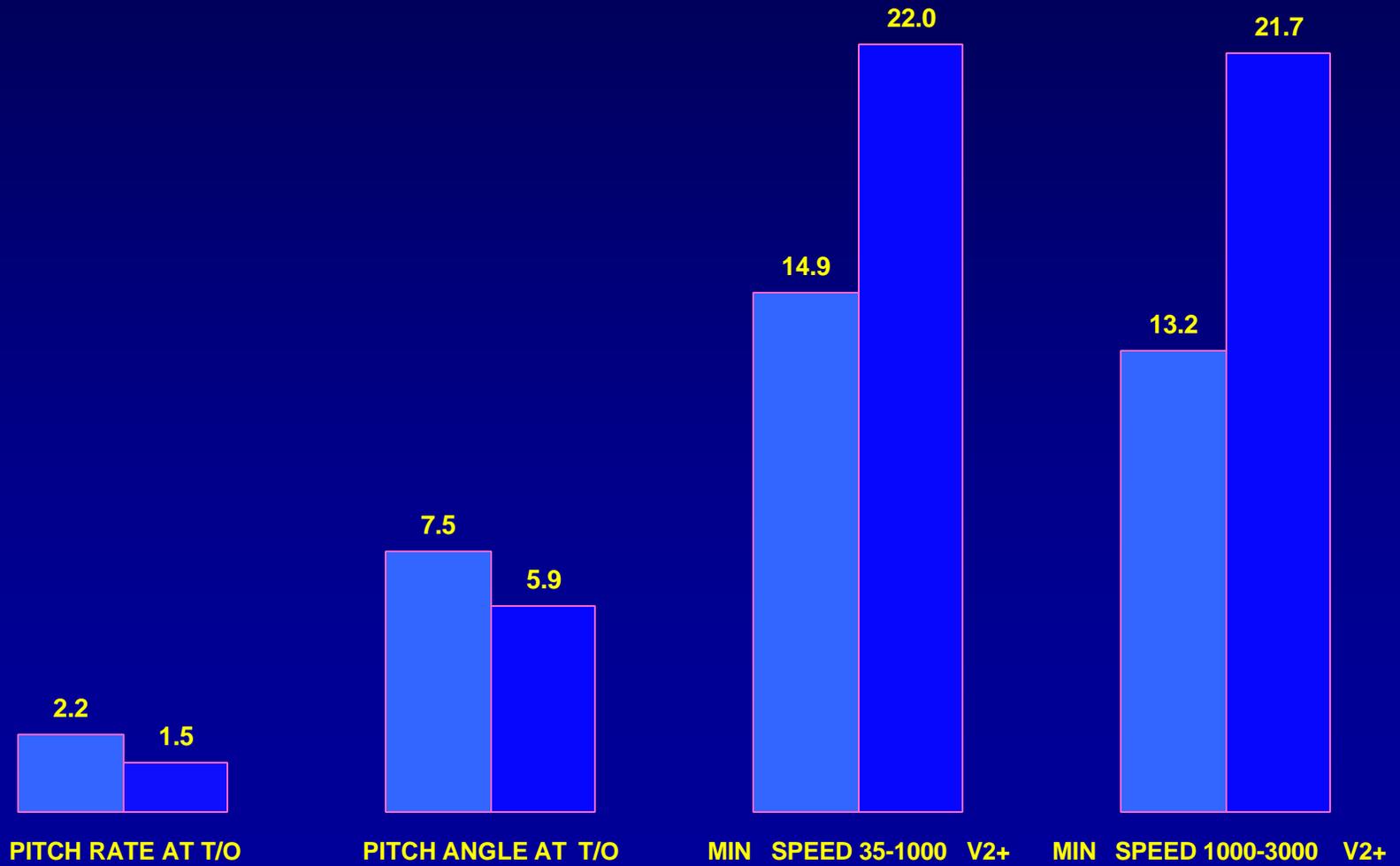
PERCENT OF EVENTS PER FLIGHT BASED ON OVER 400 SNA DEPARTURES



MEASUREMENT AVERAGES

35 SNA FLIGHTS
680 TOTAL FLIGHTS
B737-700 ONLY

■ SNA
■ ALL



MEASUREMENT AVERAGES

35 SNA FLIGHTS
680 TOTAL FLIGHTS
B737-700 ONLY

